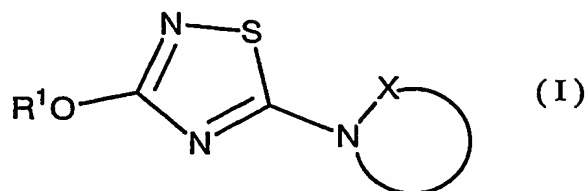


CLAIMS

1. A 1,2,4-thiadiazole compound of the formula (I):



wherein R¹ represents C3-C7 alkynyl; X represents C4-C7 straight
alkylene optionally substituted with one to four of R², C4-C7 straight
alkenylene optionally substituted with one to four of R², ethylene-oxy-
ethylene optionally substituted with one to four of R⁴, or ethylene-thio-
ethylene optionally substituted with one to four of R⁴; R² represents a
halogen atom, trifluoromethyl or C1-C4 alkyl; and R⁴ represents a
fluorine atom or C1-C3 alkyl.

2. The 1,2,4-thiadiazole compound according to claim 1, wherein X is C4-C7
straight alkylene optionally substituted with one to four of R², C4-C7 straight
alkenylene optionally substituted with one to four of R², or ethylene-oxy-ethylene
optionally substituted with one or two of R⁴; R² is a halogen atom, trifluoromethyl
or C1-C4 alkyl; and R⁴ is C1-C3 alkyl.

3. The 1,2,4-thiadiazole compound according to claim 1, wherein X is C4-C7
straight alkylene optionally substituted with one to four of R²; and R² is a halogen
atom, trifluoromethyl or C1-C4 alkyl.

4. The 1,2,4-thiadiazole compound according to claim 1, wherein X is ethylene-
oxy-ethylene optionally substituted with one to four of R⁴; and R⁴ is C1-C4 alkyl.

5. The 1,2,4-thiadiazole compound according to any of claim 1 to 4, wherein R¹ is 2-propynyl, 2-butynyl, 1-methyl-2-butynyl, 2-pentynyl, 4,4-dimethyl-2-pentynyl, 1-methyl-2-propynyl and 1,1-dimethyl-2-propynyl.

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6. A pests controlling composition containing the 1,2,4-thiadiazole compound according to claim 1 as an effective amount of active ingredient and a carrier.

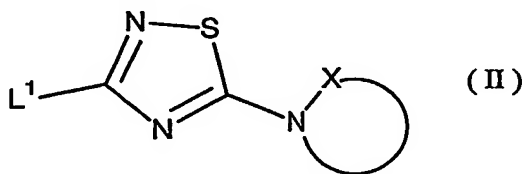
7. A method for controlling pests comprising applying an effective amount of the 1,2,4-thiadiazole compound according to claim 1 to pests or habitat of pests.

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8. Use of the 1,2,4-thiadiazole compound according to claim 1 as an active ingredient for a pests controlling composition.

9. A 1,2,4-thiadiazole compound of the formula (II):

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wherein L¹ represents methylsulfinyl or methylsulfonyl; X represents C4-C7 straight alkylene optionally substituted with one to four of R², C4-C7 straight alkenylene optionally substituted with one to four of R², ethylene-oxy-ethylene optionally substituted with one to four of R⁴, or ethylene-thio-ethylene optionally substituted with one to four of R⁴; R² represents a halogen atom, trifluoromethyl or C1-C4 alkyl; and R⁴ represents a fluorine atom or C1-C3 alkyl.

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10. The 1,2,4-thiadiazole compound according to claim 9, wherein X is C4-C7
straight alkylene optionally substituted with one to four of R², C4-C7 straight
alkenylene optionally substituted with one to four of R², or ethylene-oxy-ethylene
5 optionally substituted with one or two of R⁴; R² is a halogen atom, trifluoromethyl
or C1-C4 alkyl; and R⁴ is C1-C3 alkyl.